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Part B Activity 6 - Form Practice Questions

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Note to Staff And Students

- In your real exam you will be given a brand-new database on the second day.
- This is to stop possible cheating.
- You will not be working on the database you built for Part A..
- The new database will have new tables, queries and reports as well as lots of new data.

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Note to Staff And Students

In Part B you will be creating data entry forms.

For the purpose of this exercise, you will be given a new database that is based on what you saw in Part A.

The difference is that the Primary keys for all tables are now autonumbered.

You will not change the tables or validation or modify the data in any way.

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The Vehicle Rental Company

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Task Scenario

- You have been asked to create a database for the East Berkshire Vehicle Rental Company
- Currently all records are stored on a spreadsheet
- The Company would like to be able to store information about their Rentals, Customers and Vehicles.
- The Company would like to be able to report on how their cars are Hired.

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Task Scenario

The database will record information about:

Customers and Customer Types.

Vehicles.

Rental Data.

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Task Scenario

- Cars can be Petrol, Hybrid or Electric.
- The company wants the flexibility to add new cars and customers at a later date.
- Customers can on a Platinum, Gold or Standard discount model.
- Each discount allows a different percent discount.
- If a vehicle rental does not have a return date, that means the customer still has the vehicle out for hire.
- Hire costs are for each full day of hire.

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The Scenario

The Vehicle Rental Company has begun work on a database that looks similar to your database from Part A.

The Vehicle Rental Company has a list of parts which are available to repair their fleet of cars.

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Basic Form Information

- Part information includes:
- Name of the part
- Number of a part in stock and the date the part was ordered
- The cost of a part to purchase and the cost the part is sold for
- The number of hours it takes to repair that part.
- The cost per hour to complete the repair

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Task 1 – Adding A Customer

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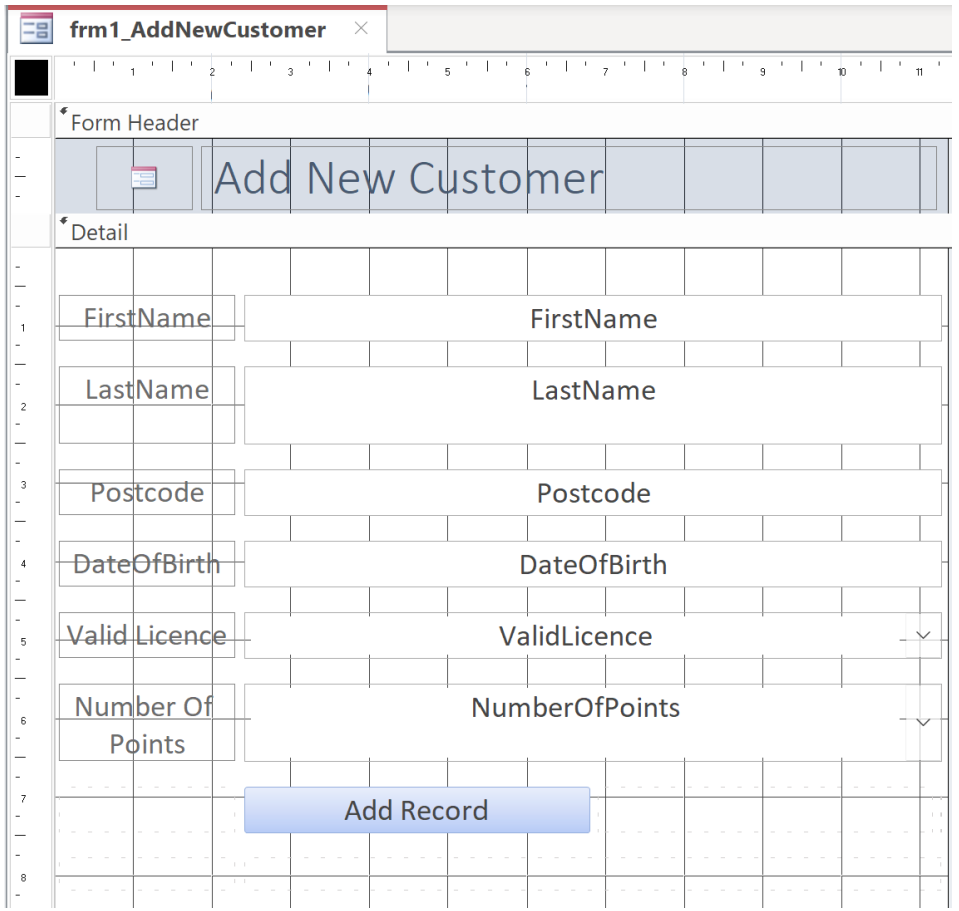
Form - Design View



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FORM HINT:

Create this initially in Layout View.

If you need to do any tweaks, shift to design view.

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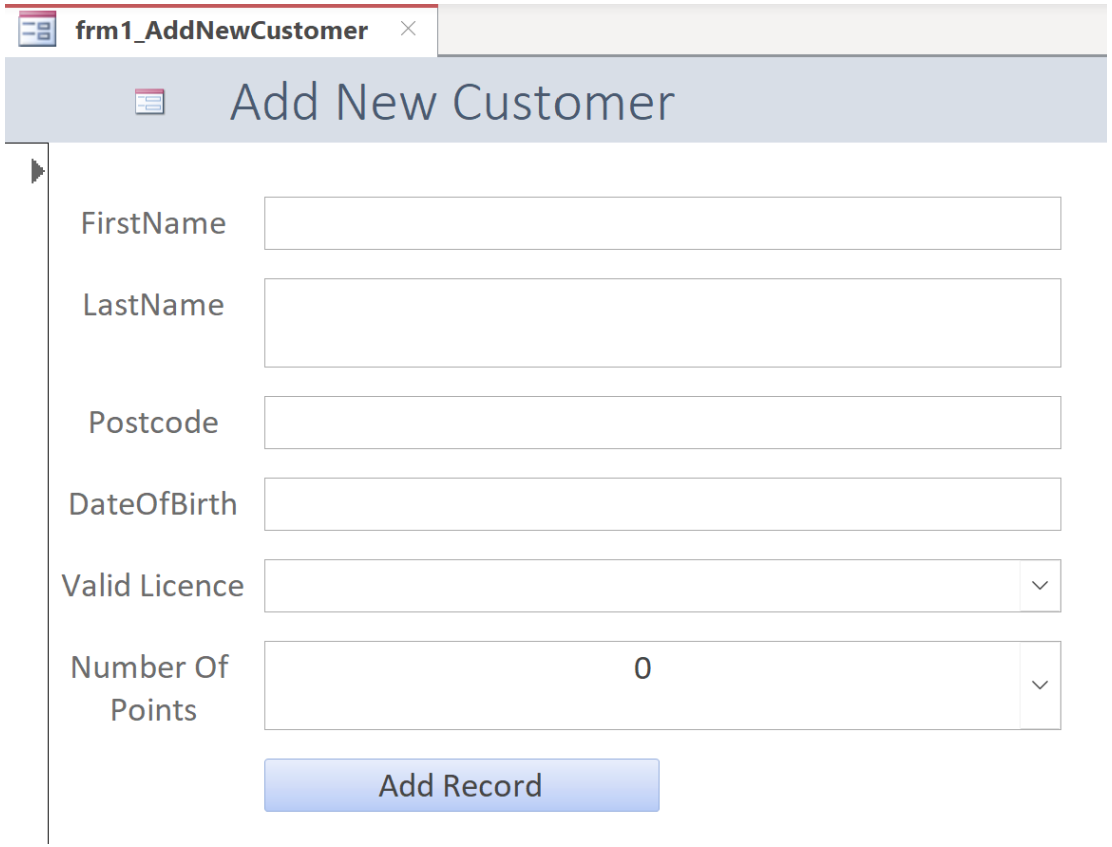
Form - Form View



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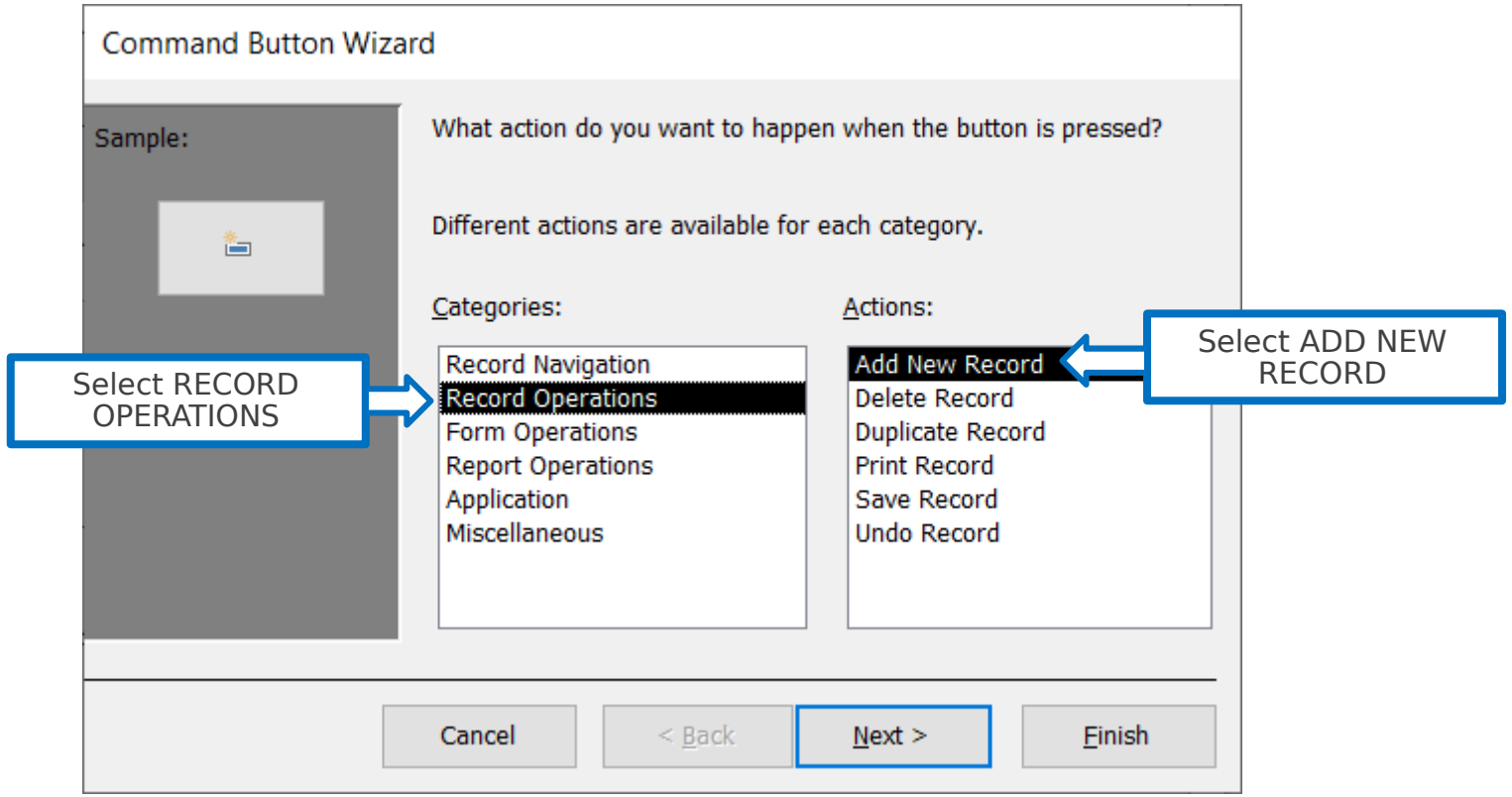
Adding the Button using the Wizard



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Basic Form Information

- Make sure Data Entry is set to **YES**
- The Form is bound to the Customer Table
- The record source is set to tblCustomer
- All ***Is Not Null*** validation will be performed using VBA code

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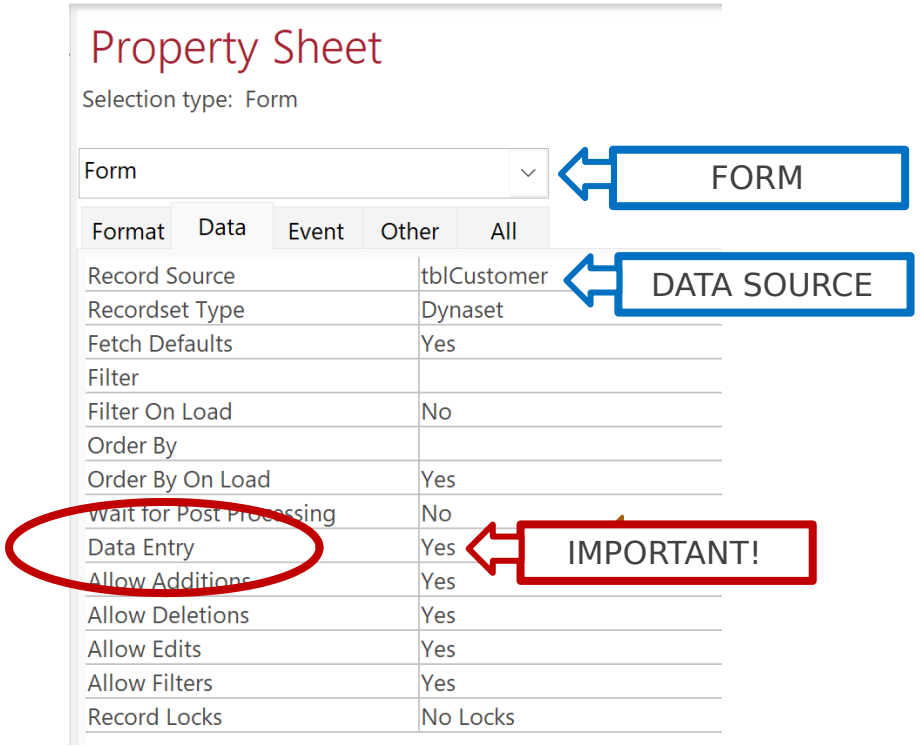
Form Properties

DATA ENTRY - YES



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Basic Form Information

- The Postcode Field:
- Has an Input Mask on it
- >LL0\ 0LL;;_
- This means that it can only take postcodes such as EH1 7BP
- Any other postcodes will be rejected

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Form Validation

VALIDATE THE POSTCODE

Property Sheet

Selection type: Text Box

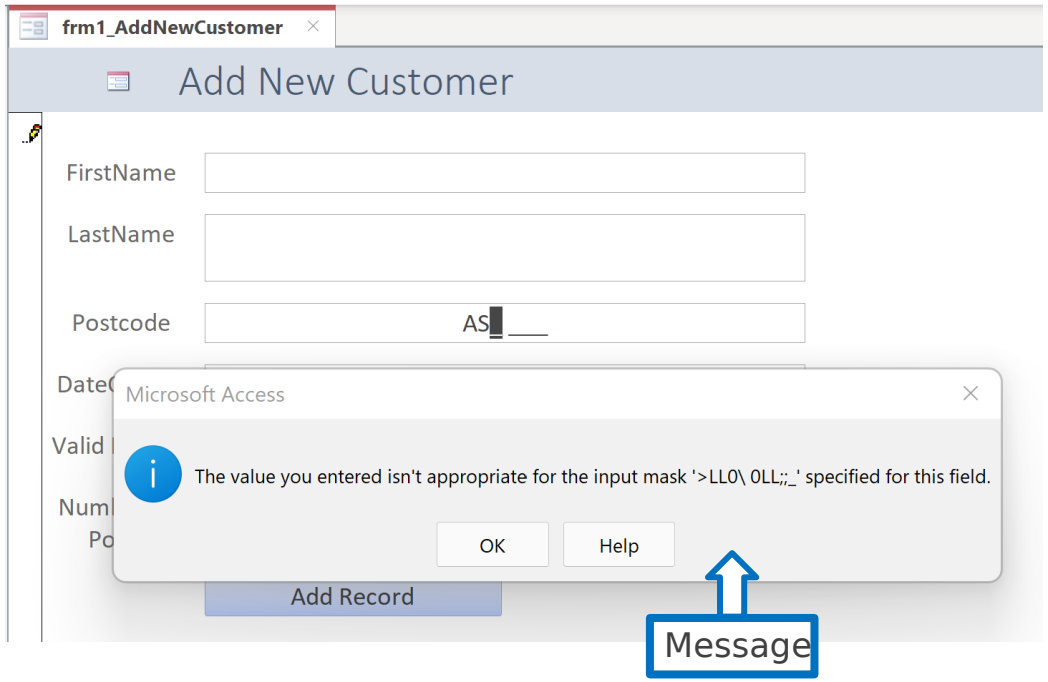
txtPostcode

Format | Data | Event | Other | All

Control Source	Postcode
Text Format	Plain Text
Input Mask	>LL0\ 0LL;;_
Default Value	
Validation Rule	
Validation Text	
Filter Lookup	Database Default
Enabled	Yes
Locked	No

INPUT MASK

PROOF OF VALIDATION



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Null Validation Using VBA Macros

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Full validation with macros

- This form uses macros to validate all form input.
- It will check if the all fields are missing data.
- If any are, the code will display an error message.
- Only of all fields are filled will it display success.
- The key thing is to do all the IsNull validation in a macro.

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First Name validation with macros

CODE TO CHECK FOR A FIRST NAME

```
If IsNull([txtFirstName]) Then
    MessageBox
        Message   You must enter a first name
        Beep      No
        Type      Warning!
        Title     ERROR
```

CODE

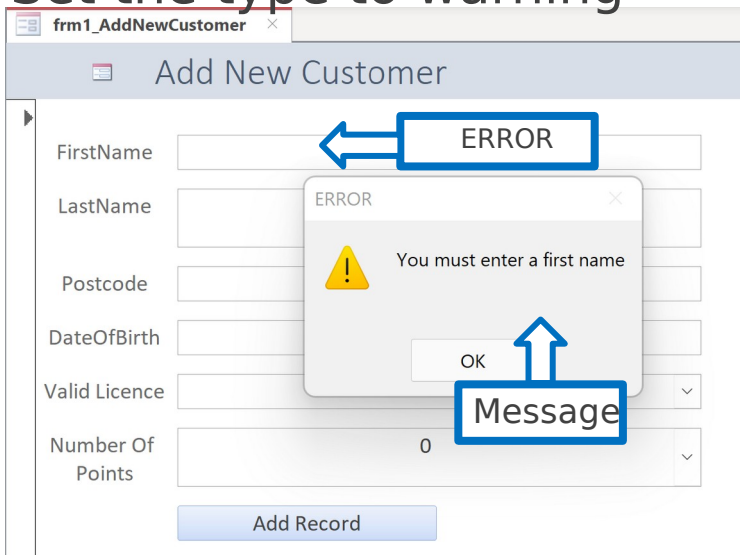
CODE

EXPLANATION

If the first name is null (empty)

Show a message

Set the type to warning



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Last Name validation with macros

CODE TO CHECK FOR A LAST NAME

```
Else If IsNull([txtLastName]) Then
    MessageBox
        Message  You must enter a last name
        Beep  No
        Type  Warning!
        Title  ERROR
```

CODE

CODE

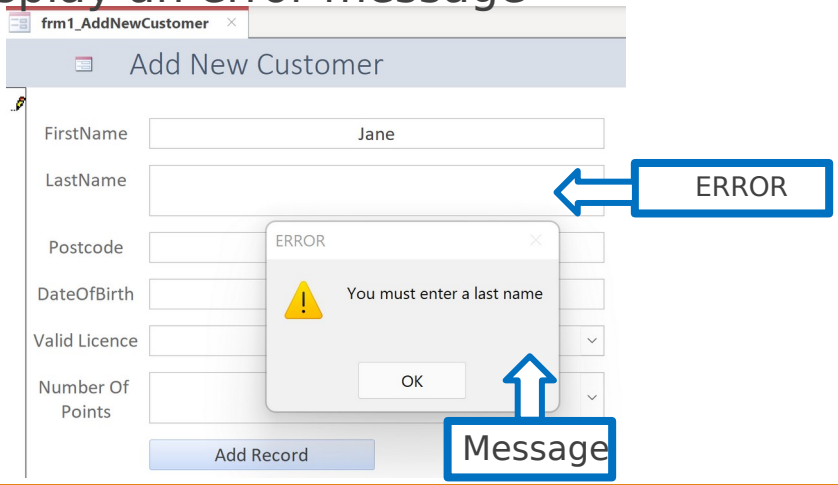
EXPLANATION

We use the else if because we have a set of checks to make

This is like saying ‘otherwise’

And again if the last name is missing

Display an error message



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Glossary of Terms

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Glossary – Relational Database 1

Key Term	Definition
Attribute	Another name for a Column (or Field) in a Table in a Database.
Cardinality	A measure of how unique values within a column are. A Primary Key column would have High Cardinality, an ‘IsStudent’ column would have Low Cardinality.
Domain	
Entity	
Relation	
Relational Database	
Tuple	

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